

FIG. 1A

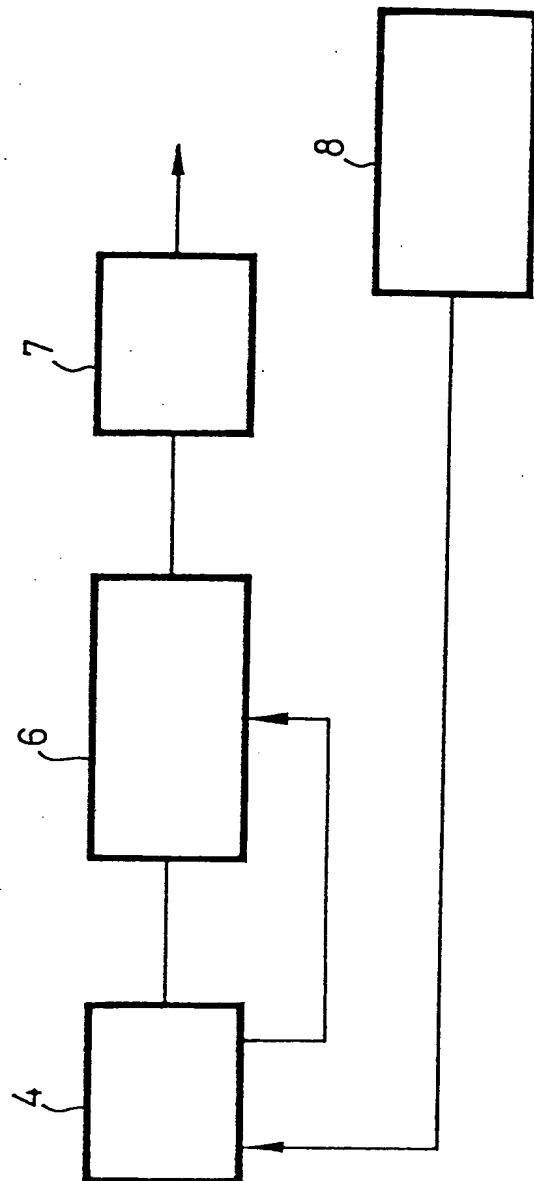


FIG. 1B

FIG. 2

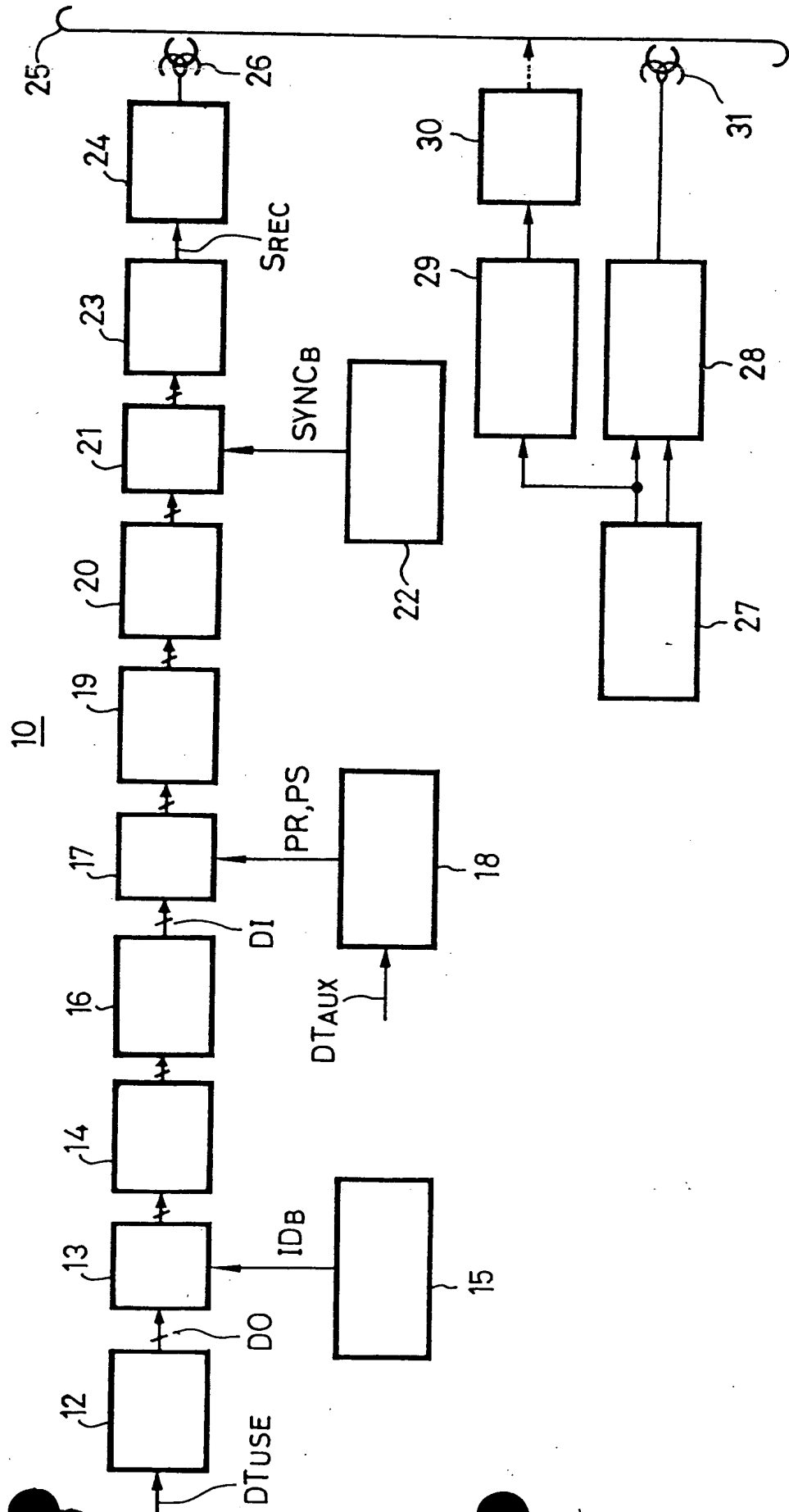




FIG. 3

DO

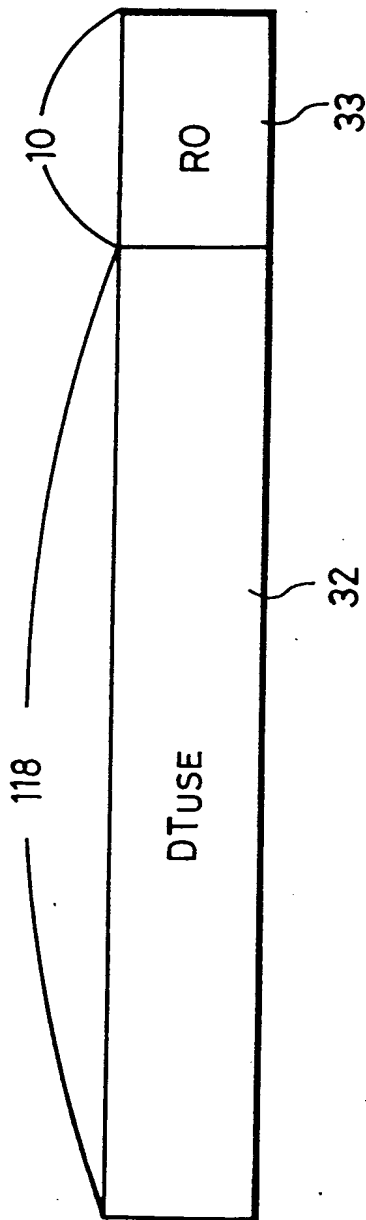
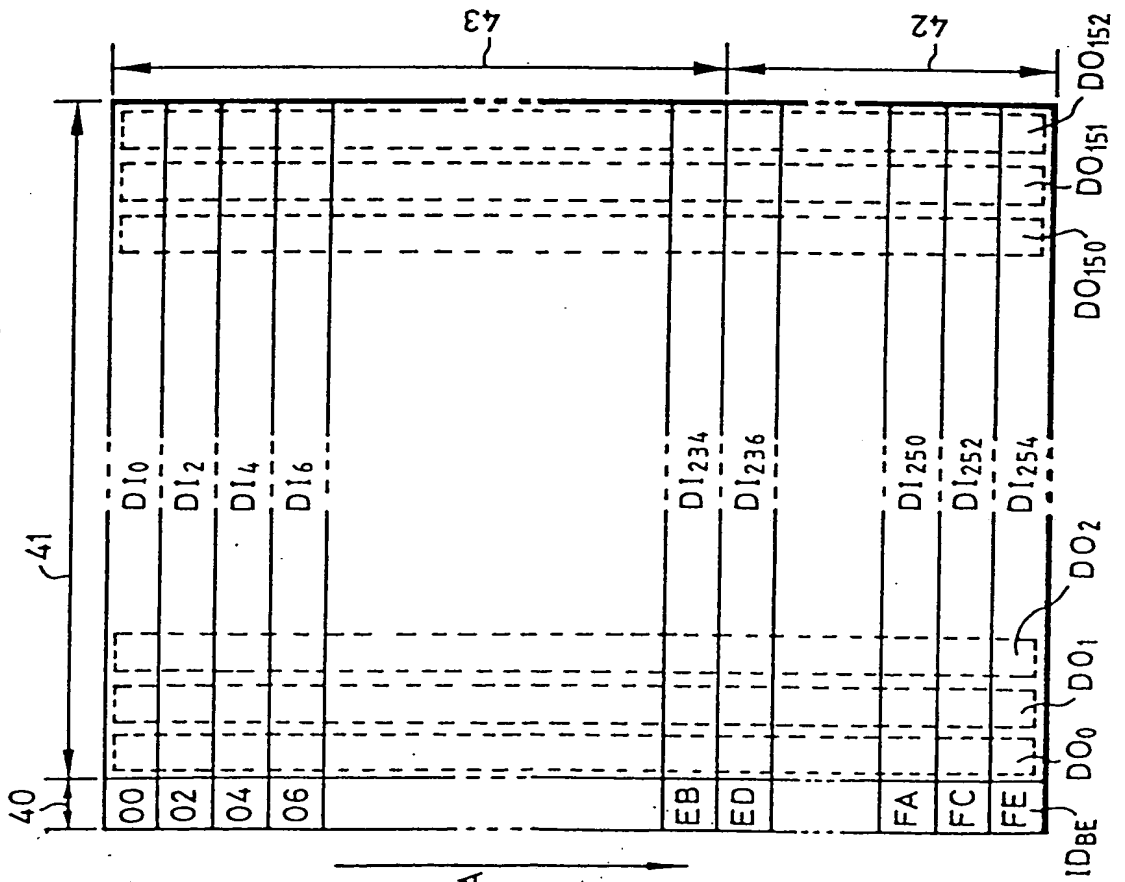


FIG. 4

MEM 1

B →



MEM 2

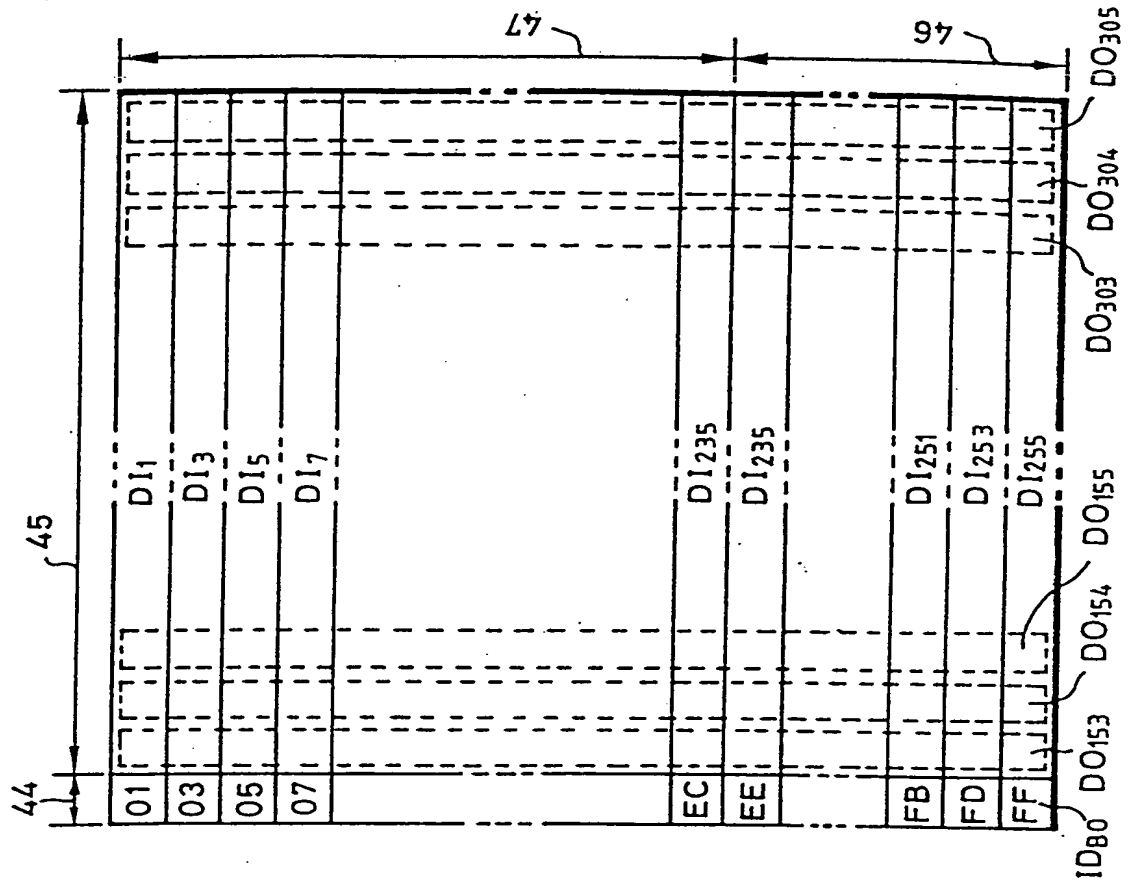


FIG. 5

DI

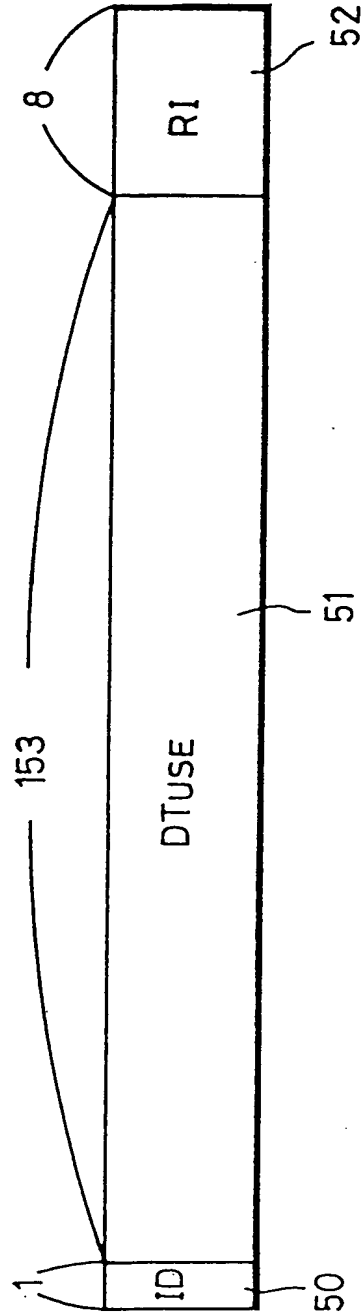
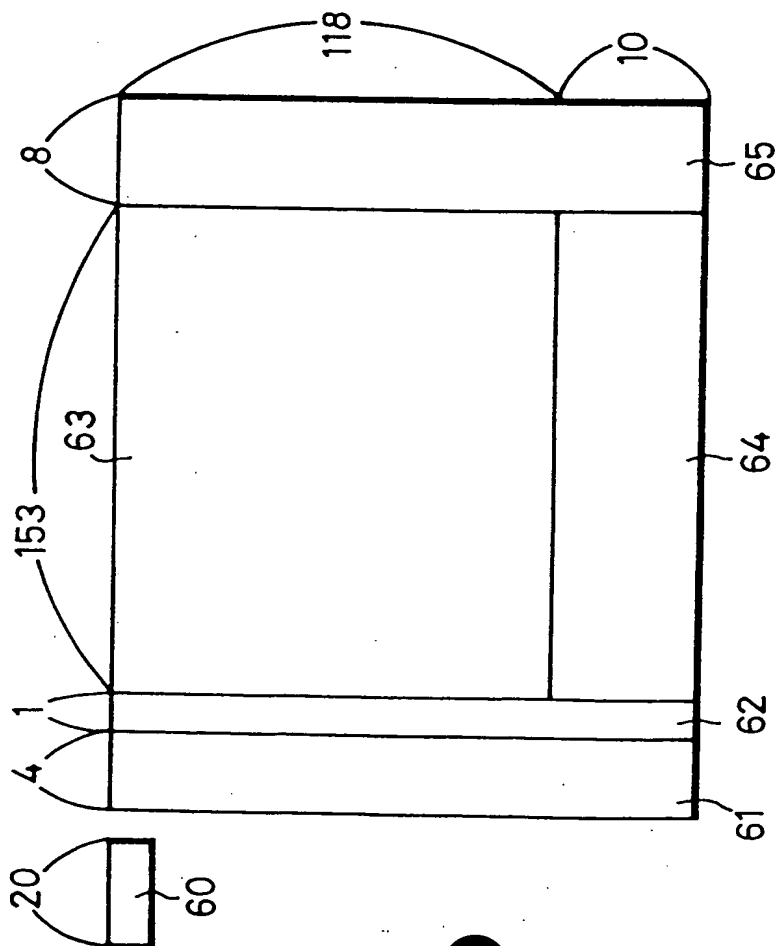


FIG. 6

MAP 1



MAP 2

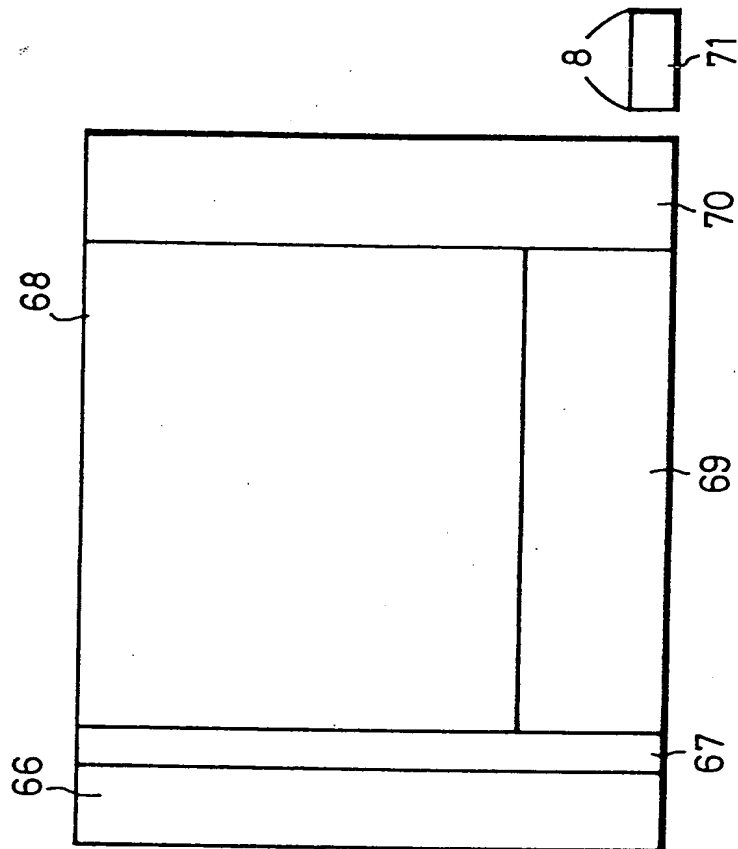


FIG. 8A



FIG. 8B

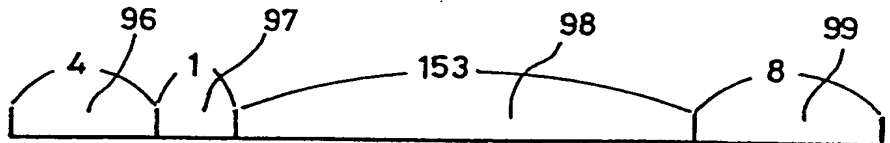


FIG. 9

Recording Rate of DIR-1000	Tape Travel Speed of DIR-1000 [mm/s]
1	423.8
1/2	211.9
1/4	105.9
1/8	53.0
1/16	26.5
1/24	17.7
1/32	13.2

FIG. 10

Compression Rate of Video Data (Upon use of a tape having a length of 1,330m)

Recording Time
of DIR-1000

Recording Time of DIR-1000	Compression Rate of Video Data	Tape Travel Speed of DIR-1000 [mm/s]
100	1	211.9
200	1/2	105.9
400	1/4	53.0
800	1/8	26.5
1200	1/12	17.7
1600	1/16	13.2

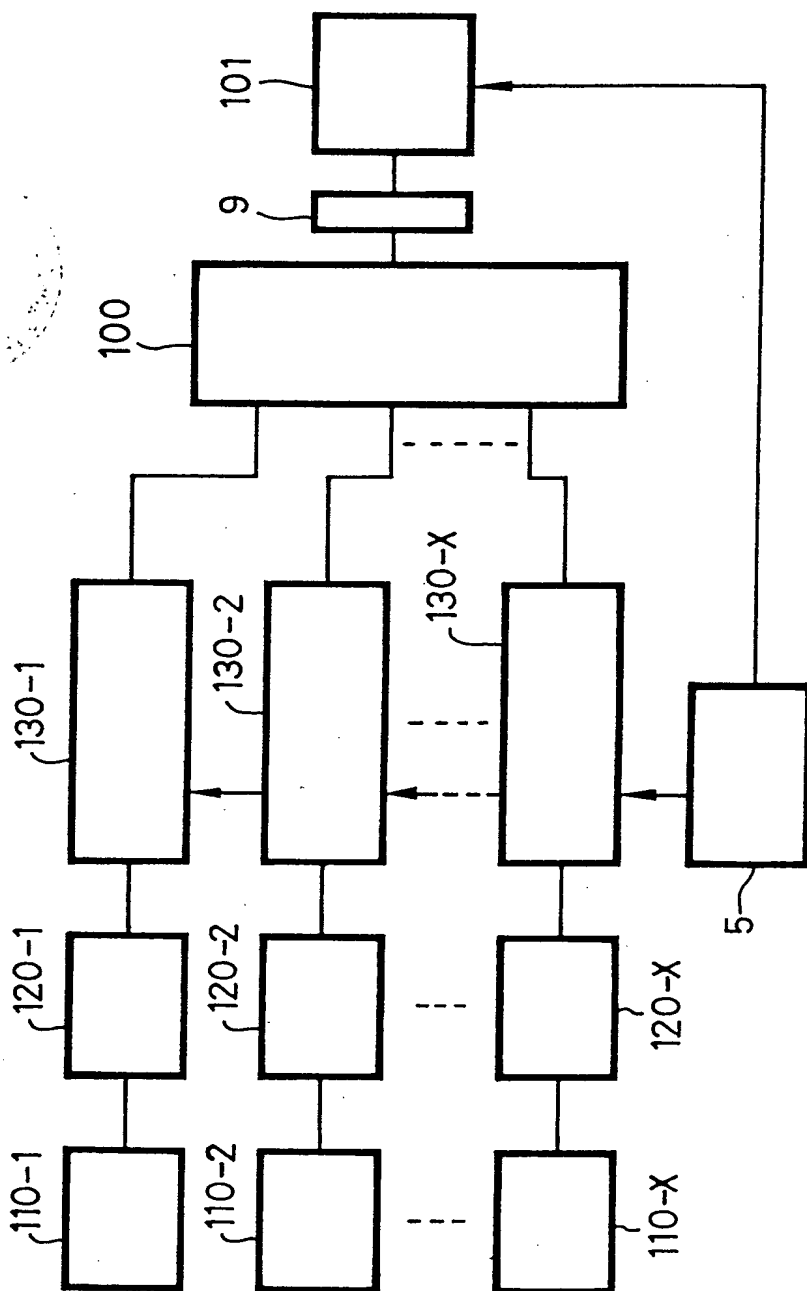


FIG. 11A

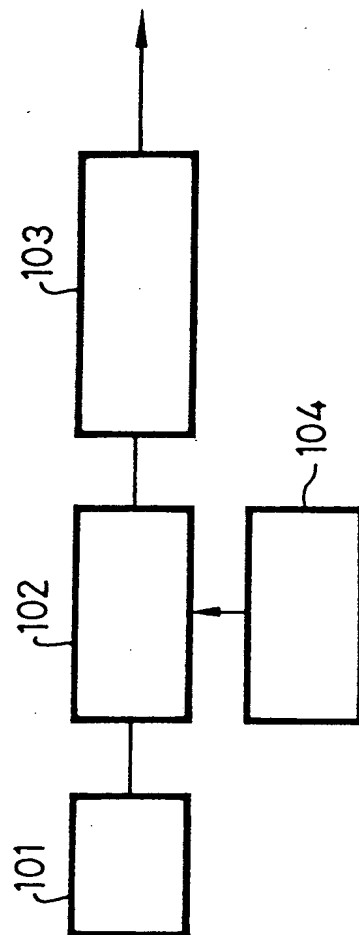


FIG. 11B

FIG. 12

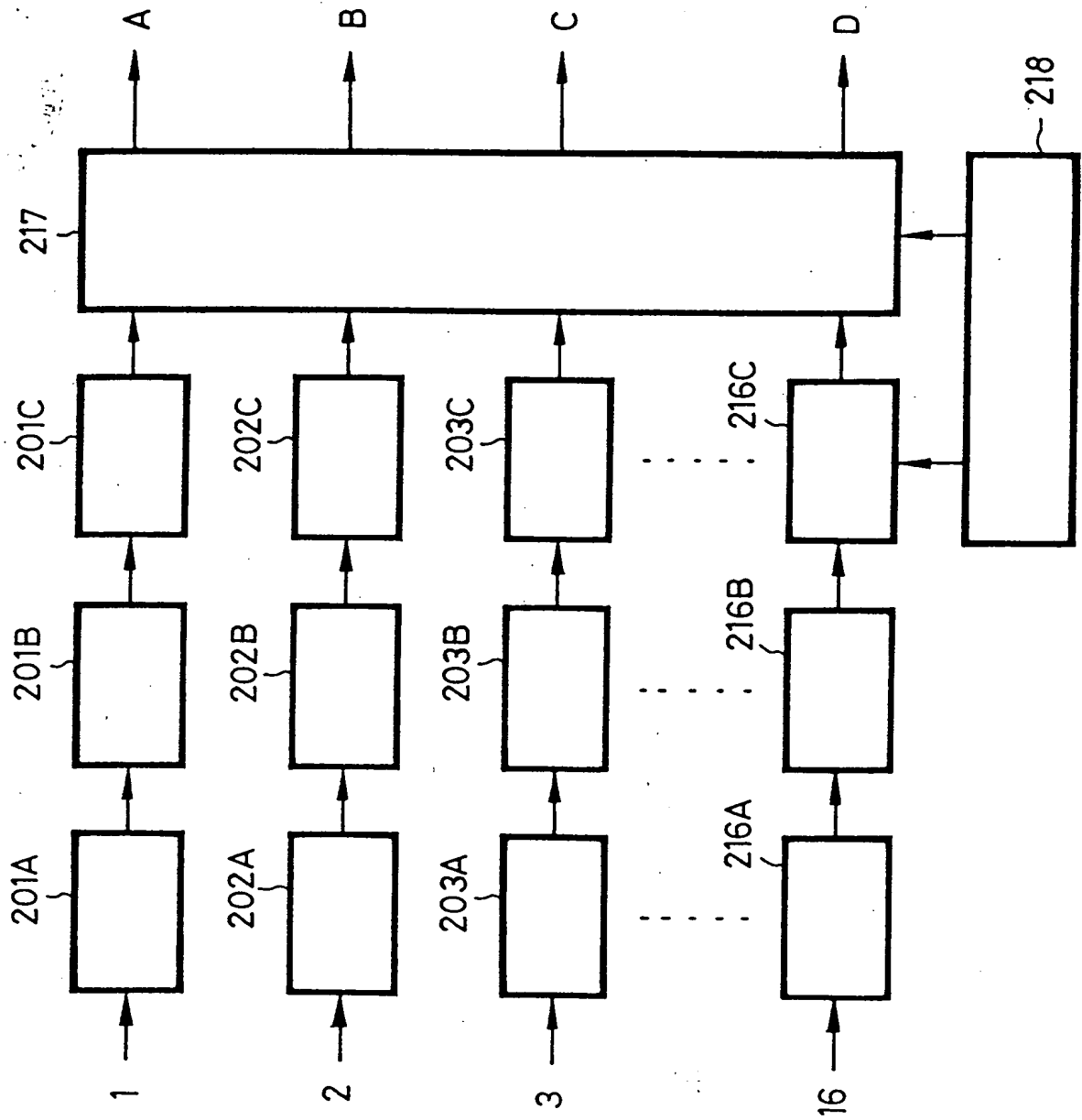


FIG. 13

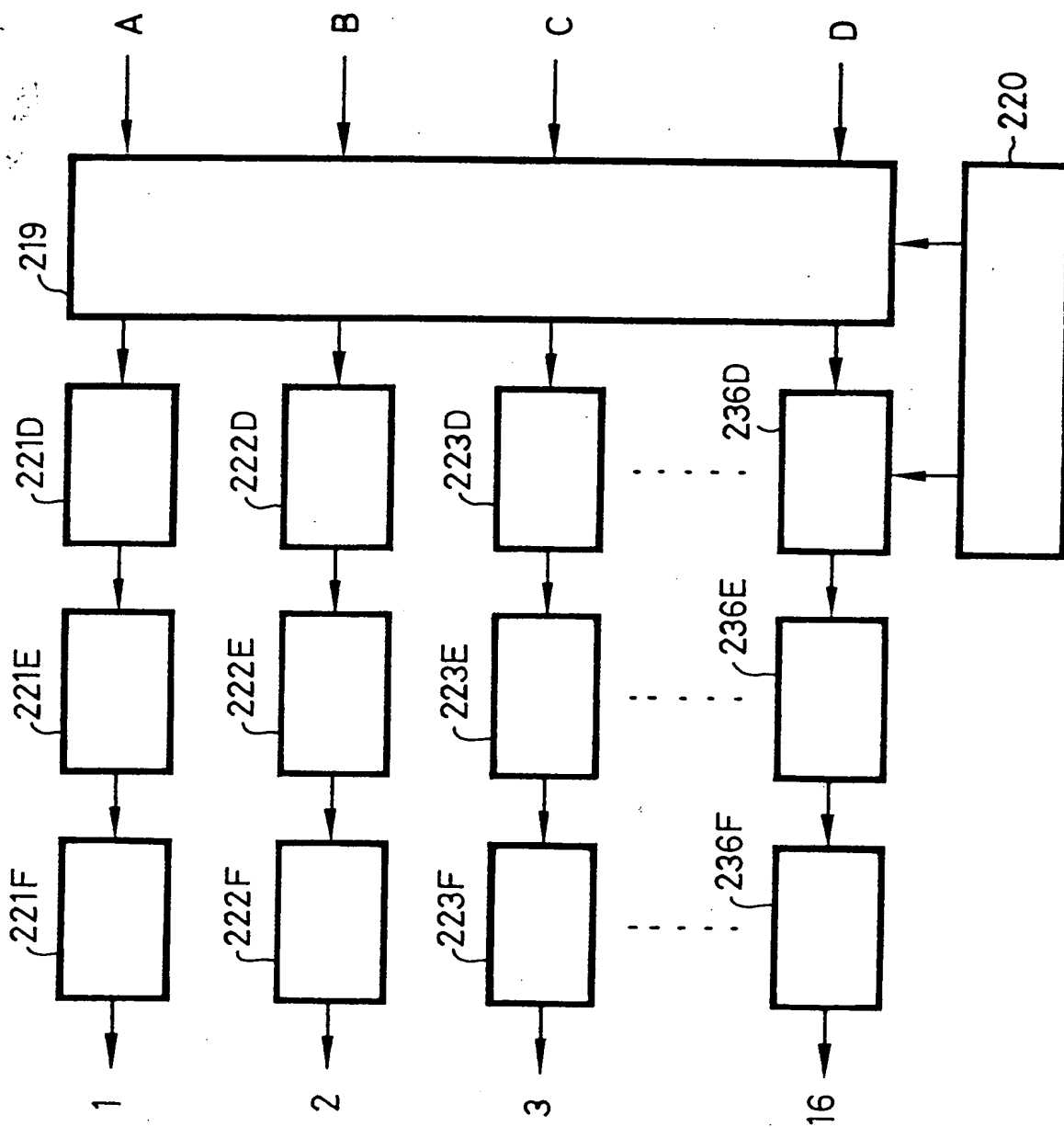


FIG. 15

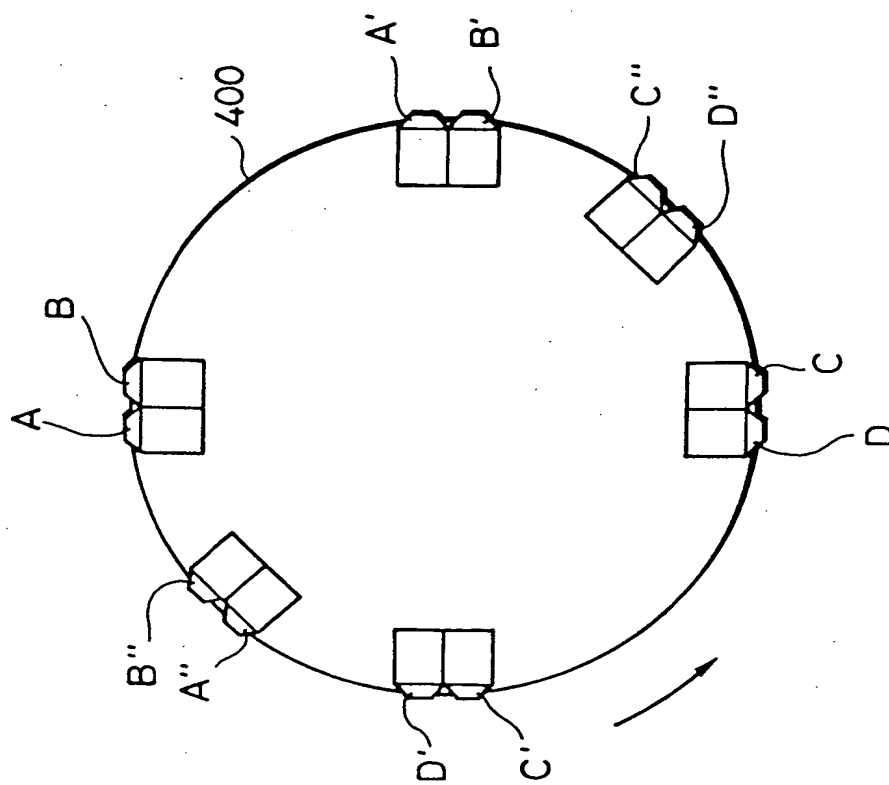


FIG. 17

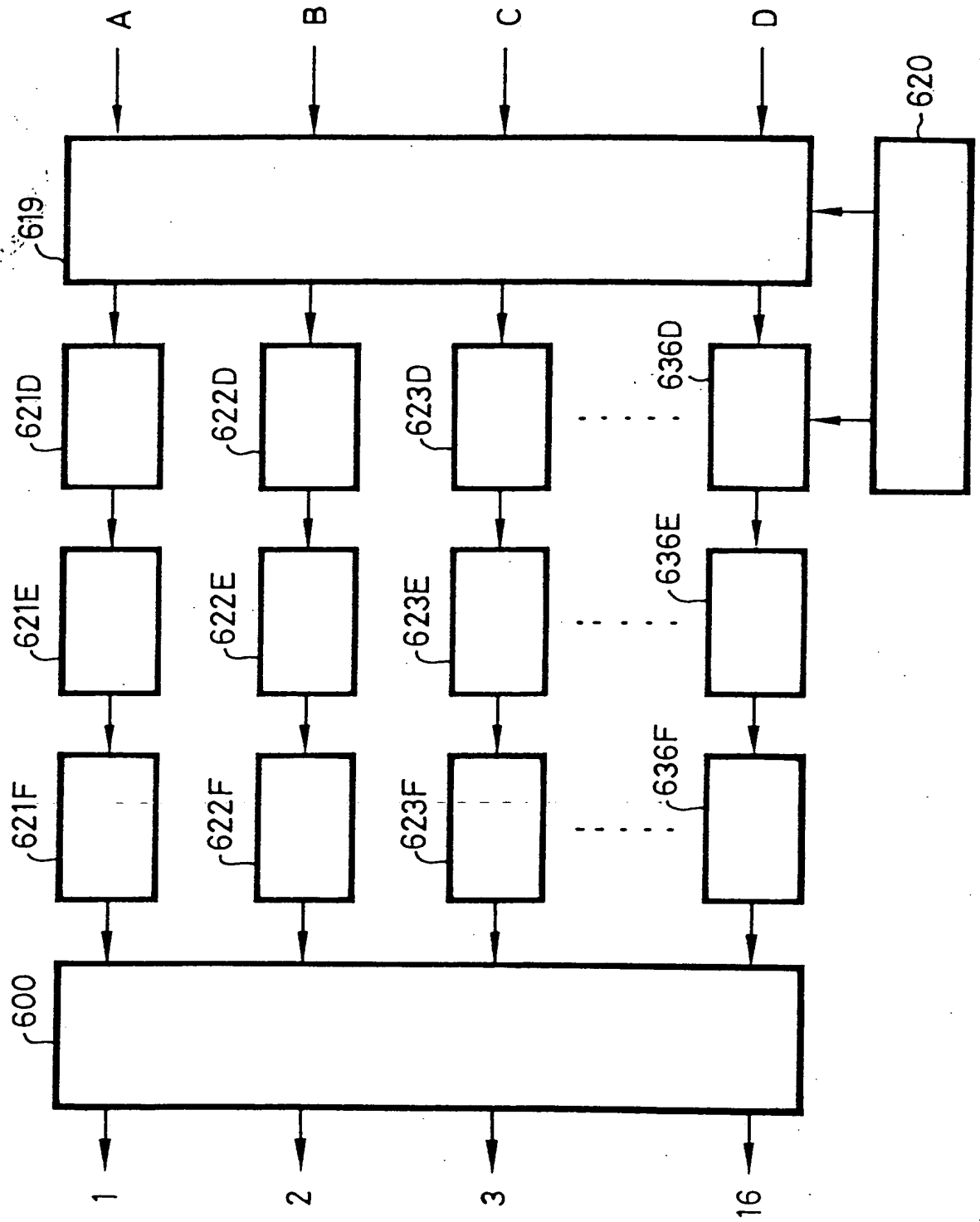
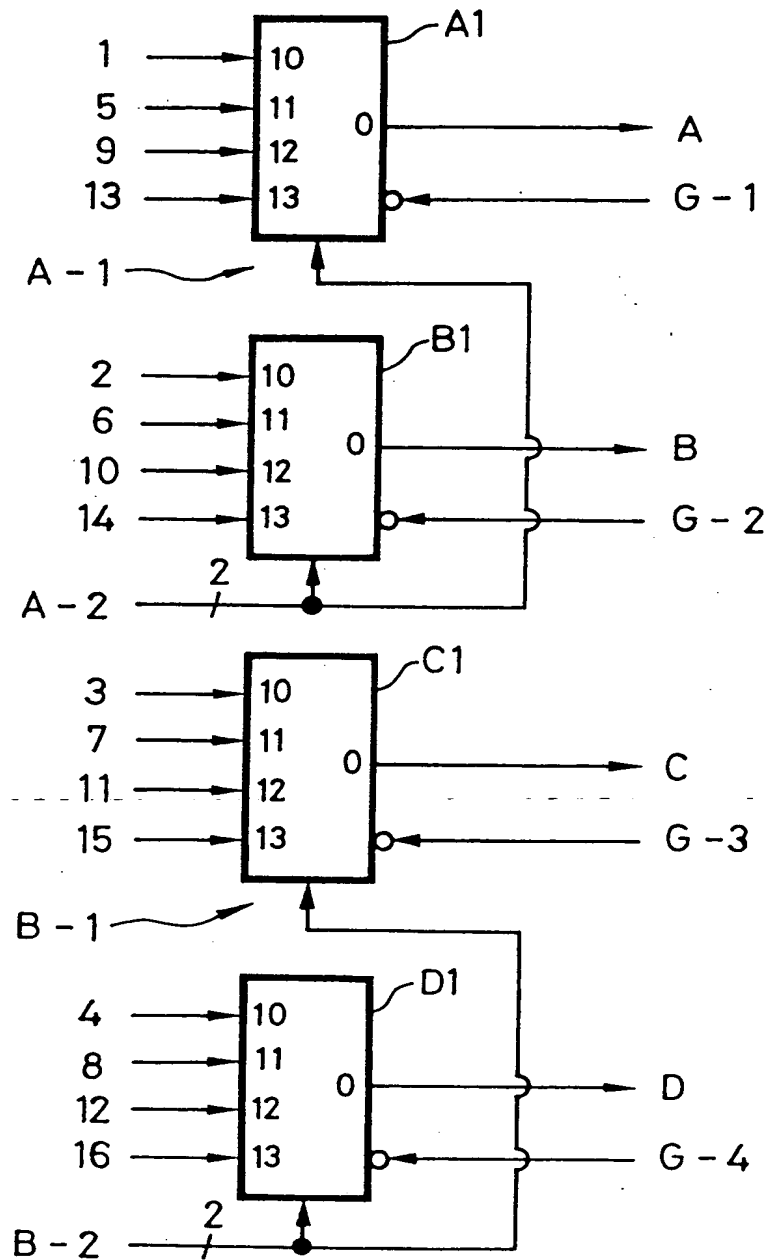


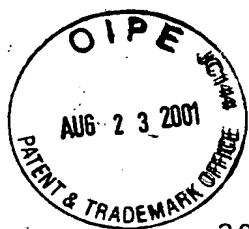
FIG. 18





EXPLANATION OF REFERENCE NUMBERS

- 1 the source reproducing VTR
- 2 the A/D converter
- 3 the 1:N video-data compression encoder
- 4 the archive VTR
- 5 the device for inputting and setting the picture
 quality that the user desires
- 6 the 1:N video-data compression decoder
- 7 the D/A converter
- 8 the device for inputting and setting the channel that
 the user desires
- 9 the formatter
- 27 the control panel
- 28 the time code recording processing unit
- 29 the tape-speed control unit
- 30 the driver
- 31 the time code head
- 90 the tape-travel-speed and channel discriminating unit
- 91 the video-data compression rate discriminating circuit
- 92 the tape-travel-speed changing means
- 110-1, 110-2, 110-X the 1-inch omega VTRs
- 120-1, 120-2, 120-X the A/D converters
- 130-1, 130-2, 130-X the 1:N video-data compression encoders
- 100 the multiplexer
- 101 the archive VTR
- 102 the demultiplexer
- 103 the 1:N video-data compression decoder
- 104 the desired-reproduction-source setting device



201A, 202A, 203A, ..., 216A the video compression units
201B, 202B, 203B, ..., 216B the encoding units
201C, 202C, 203C, ..., 216C the memory units
217 the signal control unit
218 the recording-signal timing control unit
A, B, C, D the recording heads
A', B', C', D' the recording heads
A'', B'', C'', D'' the erasing heads
219 the signal dividing unit
220 the reproduced-signal timing control unit
221D, 222D, 223D, ..., 236D the memory units
221E, 222E, 223E, ..., 236E the decoding units
221F, 222F, 223F, ..., 236F the video expanding units
300 the track
400 the drum
500 the track
510 the track
600 the signal synthesizing unit
A1, B1, C1, D1 the recording signal selection unit
A-1, B-1, A-2, B-2 the recording selection signals